

# Curriculum Vitae

## Cameron B. Chiarot

BSc (Hon) | MBA | PhD (c)

Health Economist | Epidemiologist | Biostatistician | Executive Leader

### EDUCATION

- 2021 – current      PhD Candidate, Doctoral Program in Health Economics, Epidemiology, and Biostatistics, School of Public Health Sciences, Faculty of Health, University of Waterloo (Waterloo, Ontario, Canada). Thesis: *Health System Resilience for Climate Change Adaptation: An Empirical Evaluation of Access and Utilization in Western Province, Zambia*.
- 2015 – 2017      MBA, with Distinction (Dean's List), Economics, Finance, and Healthcare Systems, Schulich School of Business, York University (Toronto, Ontario, Canada). Course Thesis: *Health and Economic Impacts of Influenza in Ontario: A Proactive Forecasting and Prevention Approach in Decreasing the Incidence Rate*.
- 1996 – 2000      BSc (Honors), Psychology (Neuroscience), University of Western Ontario (London, Ontario, Canada). Thesis: *Fos Expression Induced by Intraventricular Injection of Neurotrophin-3 (NT-3) in the Paraventricular Nucleus (PVN) of the Hypothalamus in the Rat*.

### CREDENTIALS

- 2006 – 2007      Executive Leadership Development Program, Healthcare Management, Rotman School of Management, University of Toronto (Toronto, Ontario, Canada).

### PROFESSIONAL DEVELOPMENT (INSTRUCTOR)

- 2021 – current      Centre for Teaching Excellence, University of Waterloo. Modules completed: Preparing to TA (CTE1210), Teaching Online Basic Skills (CTE1406), Giving and Receiving Feedback (CTE1106), Supporting Student Mental Health (CTE2259), More Feet on the Ground, Unit 2A (CTE2259), LEARN for TAs (CTE6550), and Effective Lesson Plans (CTE1202).
- 2021 – current      Fundamentals of University Teaching (FUT), University of Waterloo. Enrolled in the program.

2021 – 2021 Education and Development, Conestoga College Institute of Technology and Advanced Learning. Micro-Credentials Completed: Teaching and Services at Conestoga (EDEV0670), Active Learning Leading to Assessment to Conestoga (EDEV0650), Understanding Outcomes-Based Curriculum (EDEV0640), and Conestoga’s LMS and Technologies for Teaching (EDEV0660).

## ACADEMIC POSITIONS

2024 – current **Sessional Lecturer** (Contract, Part-Time), School of Public Health Sciences, Faculty of Health, University of Waterloo (Waterloo, Ontario, Canada). Graduate course: Health Economics and Public Health (HLTH 632). Course offering for the Master of Public Health program.

2021 – 2024 **Professor** (Part-Time Faculty), School of Health & Life Sciences, Conestoga College Institute of Technology and Advanced Learning (Kitchener, Ontario, Canada). Undergraduate course: Financial Practices for Healthcare Organizations (FIN8230); Engaging Collaboration in Health Care Management (MGMT8165); and Entrepreneurship in Health Care (ENTR8260).

2021 – 2023 **Teaching Assistant** (Contract), Faculty of Health, University of Waterloo (Waterloo, Ontario, Canada). Undergraduate courses: Global Health (HLTH 401); Contemporary Issues in Health: The Wicked Problem of Climate Change (HLTH 473); Social Determinants of Health (HLTH 260); An Introduction to Health Neuroscience (HLTH 290). Graduate courses: Applied Machine Learning and Artificial Intelligence in Public Health (HLTH 650); Quantitative Methods and Analysis (HLTH 605B).

2022 – current **Graduate Student Supervisor & Mentor**, Graduate Research Assistant (MSc), School of Public Health Sciences, Faculty of Health, University of Waterloo (Waterloo, Ontario, Canada).

2024 – current **Graduate Research Studentship** (Contract), School of Public Health Sciences, Faculty of Health, University of Waterloo (Waterloo, Ontario, Canada). Supervisors: Dr. Craig R. Janes (2024-2025), Dr. Zahid A. Butt (2025).

2023 (Fall) **Instructional Aide**, AccessAbility Services, University of Waterloo, School of Public Health Sciences, Faculty of Health, University of Waterloo. Graduate course: Quantitative Methods and Analysis (HLTH 605B).

2023 (Spring) **Graduate Research Assistantship** (Contract), School of Public Health Sciences, Faculty of Health, University of Waterloo (Waterloo, Ontario, Canada). Supervisor: Dr. Kelly Anthony

2022 (Fall)	<b>Proctor</b> (Volunteer), School of Public Health Sciences, Faculty of Health, University of Waterloo (Waterloo, Ontario, Canada). Undergraduate course: Aging & Health (HLTH 201).
2021 – 2022	<b>Graduate Student Representative (GSR)</b> (Volunteer), School Advisory Committee on Appointments (SACA), School of Public Health Sciences, Faculty of Health, University of Waterloo (Waterloo, Ontario, Canada). Advertised position: Assistant Professor, Health Informatics.
2000 – 2002	<b>Research Associate</b> (Full-Time), Medical Imaging, Sunnybrook Research Institute, Sunnybrook Health Sciences Centre, Healthcare Service Provider – Quaternary Hospital Care (Toronto, Ontario, Canada).
1995 – 2000	<b>Research Assistant</b> (Internships and Practicums), Department of Anatomy and Cell Biology, Faculty Medicine and Dentistry, University of Western Ontario (London, Ontario, Canada), Department of Psychology and Neuroscience, Faculty of Social Science, University of Western Ontario (London, Ontario, Canada), Institute for Medical Sciences, Department of Physiology, Faculty of Medicine, University of Toronto (Toronto, Ontario, Canada), Department of Obstetrics & Gynecology, Faculty of Medicine, St. Joseph's Hospital and Lawson Health Research Institute, University of Western Ontario (London, Ontario, Canada), Department of Physiology, Faculty of Medicine, University of Western Ontario (London, Ontario, Canada).

## NONACADEMIC POSITIONS

2018 – 2021	<b>Founder</b> , Waterloo Health Network, Health Service Provider/Research and Development (Kitchener, Ontario, Canada).
2007 – 2021	<b>Consultant</b> , CDG Inc., Healthcare Consulting, Strategic Planning and Regulatory Affairs (Medical Device Technology) (Kitchener, Ontario, Canada).
2017 – 2018	<b>Senior Consultant &amp; Executive Director (Interim)</b> , Mississauga Halton Local Health Integration Network, Healthcare Provider – Primary Care Services (Oakville, Ontario, Canada). <i>Budget: \$5 M</i>
2013 – 2015	<b>Chief Innovation Officer &amp; Member of the Executive Team</b> , Health Sciences Centre, Healthcare Service Provider – Tertiary Hospital Care and Trauma Centre (Winnipeg, Manitoba, Canada). <i>Budget: \$10 M</i>
2012 – 2012	<b>Associate Director &amp; Ex Officio</b> , Hotchkiss Brain Institute, University of Calgary, Academic Research Centre – Brain Health, Neurology and Neuroscience (Calgary, Alberta, Canada). <i>Budget: \$100 M</i>

2010 – 2012	<b>Senior Manager</b> , Strategy & Asset Management, CML Healthcare Inc., Healthcare Service Provider – Diagnostic Imaging and Laboratory Diagnostics (Mississauga, Ontario, Canada). <i>Budget: \$30 M</i>
2002 – 2007	<b>Senior Manager</b> , Pre-Clinical Research Program, Princess Margaret Hospital, University Health Network, Healthcare Service Provider – Quaternary Hospital Care (Toronto, Ontario, Canada). <i>Budget: \$40 M</i>

## AWARDS

Fall 2025	Graduate Research Studentship, School of Public Health Sciences, Faculty of Health, University of Waterloo. Dr. Zahid A. Butt	\$9,500
Spring 2025	Graduate Research Studentship, School of Public Health Sciences, Faculty of Health, University of Waterloo. Dr. Craig R. Janes	\$10,000
Winter 2025	Graduate Research Studentship, School of Public Health Sciences, Faculty of Health, University of Waterloo. Dr. Craig R. Janes	\$10,000
Fall 2024	Graduate Research Studentship, School of Public Health Sciences, Faculty of Health, University of Waterloo. Dr. Craig R. Janes	\$9,500
Spring 2024	Graduate Research Studentship, School of Public Health Sciences, Faculty of Health, University of Waterloo. Dr. Craig R. Janes	\$9,500
Winter 2024	Graduate Research Studentship, School of Public Health Sciences, Faculty of Health, University of Waterloo. Dr. Craig R. Janes	\$9,000
Spring 2022	Faculty of Health Teaching Assistant Award, Issued by, School of Public Health Sciences, Faculty of Health, University of Waterloo	\$500

## SCHOLARSHIP<sup>a</sup>

2004 – current	ResearchGate, Research Interest Score: 190, Citations: 391, h-index: 6, Reads: 750, Recommendations: 14.
2004 – current	Google Scholar, Citations: 490, h-index: 5, i10-index: 5.

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<sup>a</sup> *Nota bene:* Scholarship last updated on 06x25

## PEER-REVIEWED PUBLICATIONS

1. **Chiarot, C.B.**, Janes, C.R., Dubin, J.A., Goma, F., Grépin, K.A., Torres-Espin, A., Larkin, Y., Mroz, E.J., Smith, M.W., & Butt, Z.A. (*Under review*). Quantifying an econosyndemic: A longitudinal analysis of the interaction between climate shocks and health system stressors on utilization of essential health services using beta regression and structural equation modelling in WP, Zambia.
2. **Chiarot, C.B.**, Janes, C.R., Torres-Espin, A., Grépin, K.A., & Butt, Z.A. (*Under review*). Enhancing Routine Health Information Systems Data Using a Novel Spatially Defined Catchment Area Methodology for Estimating Denominators: A Malaria Surveillance Case Study Among Children Under Five in Western Province, Zambia.
3. **Chiarot, C.B.**, Janes, C.R., Goma, F., Grépin, K.A., Torres-Espin, A., Mroz, E.J., Smith, M.W., & Butt, Z.A. (*Submitted*). Health System Resilience: Quantifying the Dynamic Impact of Environmental Shocks on Health Service Utilization using an Interrupted Time Series and Time-Series Forecasting Approach in Western Province, Zambia.
4. **Chiarot, C.B.**, Janes, C.R., Goma, F., Grépin, K.A., Hotchkiss, D.R., Mroz, E.J., Torres-Espin, A., Smith, M.W., & Butt, Z.A. (*In preparation*). Disentangling Climate Shocks from Systemic Stressors: A Longitudinal, Quasi-Experimental Study of the Maternal Continuum of Care in Western Province, Zambia.
5. **Chiarot, C.B.**, Butt, Z.A., Goma, F., Torres-Espin, A., & Janes, C.R. (*In preparation*). Uncovering spatial inequities in primary health care access: A location-allocation analysis for advancing Universal Health Coverage and health system resilience in Western Province, Zambia.
6. Mroz, E.J., Trigg, M., Willis, T.D.W., Johnston, L., Janes, C.R., Singini, D., Njungu, M., Liu, J., Thomas, C., **Chiarot, C.B.**, Smith, M.W. (*In preparation*). Climate change-driven hydrological changes reshape maternal healthcare access on a large African Floodplain.
7. **Chiarot, C.B.**, Janes, C.R., Abdullah, A.Y.M., Goma, F., Phiri, M., Singini, D., Zulu, R., & Butt, Z.A. (2025). Evaluating the Concept of Access as a Critical Dimension of Universal Health Coverage in the Context of Rural Communities of Western Province, Zambia. *SSM-Health Systems*, Dec 1; 5. DOI: <https://doi.org/10.1016/j.ssmhs.2025.100106>
8. Liyanage, S., Saqib, K., Khan, A.F., Thobani, T.R., Tang, W-C., **Chiarot, C.B.**, AlShurman, B.A., & Butt, Z.A. (2022). Prevalence of Anxiety in University Students during the COVID-19 Pandemic: A Systematic Review. *Int. J. Environ. Res. Public Health*, 19(1):62. DOI: <https://doi.org/10.3390/ijerph19010062>
9. Jaffray, D.A., Moseley, D., Chow, J., Kim, S., Ansell, S., Wilson, G., & **Chiarot, C.B.** (2006). WE-D-330A-09: An Image-Guided Irradiator for Pre-Clinical Radiation Therapy Studies. *Med. Phys.*, 33:2241-2241. DOI: <https://doi.org/10.1118/1.2241750>
10. **Chiarot, C.B.**, Siewerdsen, J.H., Haycocks, T., Moseley, D.J., & Jaffray, D.A. (2005). An innovative phantom for quantitative and qualitative investigation of advanced x-ray imaging technologies. *Phys. Med. Biol.*, 50(21):N287-97. DOI: <https://doi.org/10.1088/0031-9155/50/21/N01>

11. Hardy, P.A., Ridler, A.C., **Chiarot, C.B.**, Plewes, D.B., & Henkelman, R.M. (2005). Imaging articular cartilage under compression--cartilage elastography. *Magn. Reson. Med.*, 53(5):1065-73. DOI: <https://doi.org/10.1002/mrm.20439>
12. Marxen, M., Thornton, M.M., **Chiarot, C.B.**, Klement, G., Koprivnikar, J., Sled, J.G., & Henkelman, R.M. (2004). MicroCT scanner performance and considerations for vascular specimen imaging. *Med. Phys.*, 31(2):305-13. DOI: <https://doi.org/10.1118/1.1637971>
13. Wagner, G.F., De Niu, P., Jaworski, E., Radman, D., & **Chiarot, C.** (1997). Development of a dose-response bioassay for stanniocalcin in fish. *Mol. Cell. Endocrinol.*, 128(1-2):19-28. DOI: [https://doi.org/10.1016/s0303-7207\(97\)04009-4](https://doi.org/10.1016/s0303-7207(97)04009-4)

## PUBLISHED ARTICLES

1. **Chiarot, C.B.** (2004). Cone-Beam Computed Tomography – An Integrated Vision for Guiding Therapy at Princess Margaret Hospital. Princess Margaret Hospital, University Health Network News, Toronto, Ontario, Canada.
2. **Chiarot, C.B.**, & Jaffray, D.A. (2004). The STTARR Program –Taking a Closer Look at Therapy Response through Cellular, Pre-clinical, and Clinical Imaging. Industrial Research Assistance Program (NRC-IRAP) News Article. Canada.
3. **Chiarot, C.B.** (2003). A ‘Guided’ Success Story. Princess Margaret Hospital, University Health Network News, Toronto, Ontario, Canada.
4. **Chiarot, C.B.** (2003). The Image-Guided Therapy Facility and the Radiation Medicine Program. Princess Margaret Hospital, University Health Network News, Toronto, Ontario, Canada.
5. **Chiarot, C.B.**, Belliveau, D.J., & Ossenkopp, K-P. (2000). Fos Expression Induced by Intraventricular Injection of Neurotrophin-3 (NT-3) in the Paraventricular Nucleus (PVN) of the Hypothalamus in the Rat. Honors Thesis. The University of Western Ontario, London, Ontario, Canada.
6. **Chiarot, C.B.** (2000). The effects of G-Induced Loss of Consciousness: A physiological basis. University Library, University of Western Ontario, London, Ontario, Canada.

## ABSTRACTS & CONFERENCES

1. **Chiarot, C.B.** (2022). Achieving Health System Resilience: An Econosyndemic Approach. 10<sup>th</sup> Zambia Health Research Conference. Mulungushi International Conference Centre, Lusaka, Zambia.
2. **Chiarot, C.B.** (2022). Achieving Health System Resilience: An Econosyndemic Approach. Research Advisory Committee. Liseli Lodge & Conference Centre, Mongu, Western Province, Zambia.
3. **Chiarot, C.B.**, Phiri, M.M., & Zulu, R. (2022). Health Facility Questionnaire: Progress Report, Preliminary Analysis and Needs Assessment. Research Advisory Committee. Liseli Lodge & Conference Centre, Mongu, Western Province, Zambia.

4. Siewerdsen, J.H., Paul, N., Wong, R., **Chiarot, C.B.**, Patsios, D.A., Rao, A.T., Chung, T.B., Moseley, D.J., & Jaffray, D.A. (2004). Nodule detectability in chest CT: Delving the low-dose limits. 90th Scientific Assembly and Annual Meeting. The Radiological Society of North America. McCormick Place, Chicago, Illinois, USA.
5. **Chiarot, C.B.**, Siewerdsen, J.H., Haycocks, T., Moseley, D.J., & Jaffray, D.A. (2004). An innovative phantom for quantitative/qualitative investigation of advanced x-ray imaging technologies. 46th Annual Meeting and Exhibition. American Association of Physicists in Medicine. David L. Lawrence Convention Center, Pittsburgh, Pennsylvania, USA.
6. **Chiarot, C.B.**, Marxen, M., Satomi, J., Sled, J.G., & Henkelman, R.M. (2001). Microcomputed tomography of the renal vasculature in mice. Imaging Network Ontario. Crowne Plaza Don Valley Hotel, Toronto, Ontario, Canada.
7. **Chiarot, C.B.**, Marxen, M., Satomi, J., Sled, J.G., & Henkelman, R.M. (2001). Microcomputed tomography of the renal vasculature in mice. High Resolution Imaging in Small Animals: Instrumentation, Applications, and Animal Handling. Double Tree Hotel and Executive Meeting Center, Rockville, Maryland, USA.
8. Satomi, J., **Chiarot, C.B.**, Henkelman, R.M., terBrugge, K., Wallace, M.C., & Letarte, L. (2001) Angioarchitecture in a murine model of hereditary hemorrhagic telangiectasia. Annual Meeting of the AANS. Toronto, Ontario, Canada.
9. Satomi, J., **Chiarot, C.B.**, Henkelman, R.M., terBrugge, K., Wallace, M.C., & Letarte, M. (2001). Angioarchitecture in a murine model of hereditary hemorrhagic telangiectasia. The 5th Annual Meeting of the AANS/CNS and ASITN. Hawaii, USA.
10. **Chiarot, C.B.**, Belliveau, D.J., & Ossenkopp, K-P. (2000). Fos Expression Induced by Intraventricular Injection of Neurotrophin-3 (NT-3) in the Paraventricular Nucleus (PVN) of the Hypothalamus in the Rat. Annual Honors Thesis Poster Presentation. University of Western Ontario, London, Ontario, Canada.
11. Davey, V.A., Bateman, R., **Chiarot, C.B.**, & Gagnon, R. (1999). The effects of NG-Nitro-L-Arginine Methyl Ester (L-NAME) on placental embolization (EMB). Department of Obstetrics and Gynecology Annual Research Awards Day. University of Western Ontario, London, Ontario, Canada.
12. Davey, V.A., **Chiarot, C.B.**, Homan, J., & Gagnon, R. (1999). Hemodynamics and metabolic responses to fetal placental embolization in the fetal sheep. The 46th Annual Meeting of the Society for Gynecologic Investigation, Atlanta, Georgia, USA.
13. Davey, V.A., Bateman, R., **Chiarot, C.B.**, & Gagnon, R. (1999). The effects of NG-Nitro-L-Arginine Methyl Ester (L-NAME) on placental embolization (EMB). The 46th Annual Meeting of the Society for Gynecologic Investigation, Atlanta, Georgia, USA.
14. Davey, V.A., **Chiarot, C.B.**, Homan, J., & Gagnon, R. (1999). Hemodynamics and metabolic responses to fetal placental embolization in the fetal sheep. The 25th Annual Meeting of the Fetal and Neonatal Physiological Society, Lake Arrowhead, California, USA.
15. Davey, V.A., Bateman, R., **Chiarot, C.B.**, & Gagnon, R. (1999) The effects of NG-Nitro-L-Arginine Methyl Ester (L-NAME) on placental embolization (EMB). The 25th Annual Meeting of the Fetal and Neonatal Physiological Society, Lake Arrowhead, California, USA.

16. Wagner, G.F., Niu, P., Jaworski, E., Radman, D. & **Chiarot, C.B.** (1997). Development of a dose-response bioassay for stannocalcin in fish. The Canadian Society of Zoologists 36th Annual Association Meeting, University of Western Ontario, London, Ontario, Canada.

## INVITED GUEST LECTURES

1. **Chiarot, C.B.** (2025). Research Dissemination (Health Service Utilization), Various venues: Ministry of Health (Lusaka), Provincial Ministry of Health (Western Province), University of Zambia, and the Zambia National Public Health Institute (ZNPH), Republic of Zambia (Lusaka and Western Province).
2. **Chiarot, C.B.** (2023). Global Health: The Concept of Access. Graduate course: ‘Selected Topics’ (HLTH 620), School of Public Health Sciences, Faculty of Health, University of Waterloo, Waterloo, Ontario, Canada.
3. **Chiarot, C.B.** (2023). Global Health: The Concept of Access. Undergraduate course: ‘An Introduction to Health Neuroscience (HLTH 290), Faculty of Health, University of Waterloo, Waterloo, Ontario, Canada.
4. **Chiarot, C.B.** (2022). Achieving Health System Resilience: An Econosyndemic Approach. Undergraduate course: ‘An Introduction to Health Neuroscience (HLTH 290), Faculty of Health, University of Waterloo, Waterloo, Ontario, Canada.

## ACKNOWLEDGEMENTS

1. Zheng, J., Perkins, G., Kirilova, A., Allen, C., & Jaffray, D.A. (2006). Multimodal contrast agent for combined computed tomography and magnetic resonance imaging applications. Invest. Radiol., 41(3):339-48. DOI: <https://doi.org/10.1097/01.rli.0000186568.50265.64>
2. Rink, A., Vitkin, I.A., & Jaffray, D.A. (2005). Suitability of radiochromic medium for real-time optical measurements of ionizing radiation dose. Med. Phys., 32(4):1140-55. DOI: <https://doi.org/10.1118/1.1877832>

## OTHER INFORMATION

<b>Citizenship</b>	Canadian
<b>Place of Birth</b>	Toronto, Ontario
<b>Languages</b>	English (Fluent), French (Basic)
<b>Programming Languages</b>	R and RStudio, SAS, Python (Basic), CMS, VS
<b>Databases</b>	DHIS2, HMIS Zambia, GRID3, HDX
<b>LinkedIn:</b>	More than 2400 followers
<b>Research Program</b>	<a href="https://cbchiarot.github.io/">https://cbchiarot.github.io/</a>
<b>Global Health Experience</b>	Zambia, United Kingdom, United States of America
<b>Accomplishment</b>	Published photographer (Black & White)